

# A guide to Android Car Stereo Wiring Harnesses

By Dave Delamere

## Getting a handle on all those wires

While they can look like some sort of multicolor pasta dish, wiring harnesses help you connect your new [Android car stereo](#) to your vehicle's wiring. In this article, we'll explain the different types of harnesses and adapters and how they're helpful when installing your new car stereo.

### Car stereo wiring harnesses

Each vehicle has a different wiring story. Sometimes you have a choice of harnesses that will work in your car. Other times, you might need more than one harness to complete the installation.



## The basic wiring harness

These represent the most common type of wiring harnesses. They offer connections for the power and speaker wires. They can also include connections for the new stereo's ground and illumination wires.

Using the wiring code the adapter manufacturer supplies, these harnesses enable you to match up the wires for each connection to the new stereo's wiring harness. Once that's done, you plug the other end of the harness into your car's wiring connector (the one that was plugged into the factory radio).

## Specialized wiring harnesses

Vehicle audio systems, electrical systems, and convenience features have come a long way. So, the harnesses had to evolve to handle the complex wiring and data information that modern cars use.

### Connections at a distant location

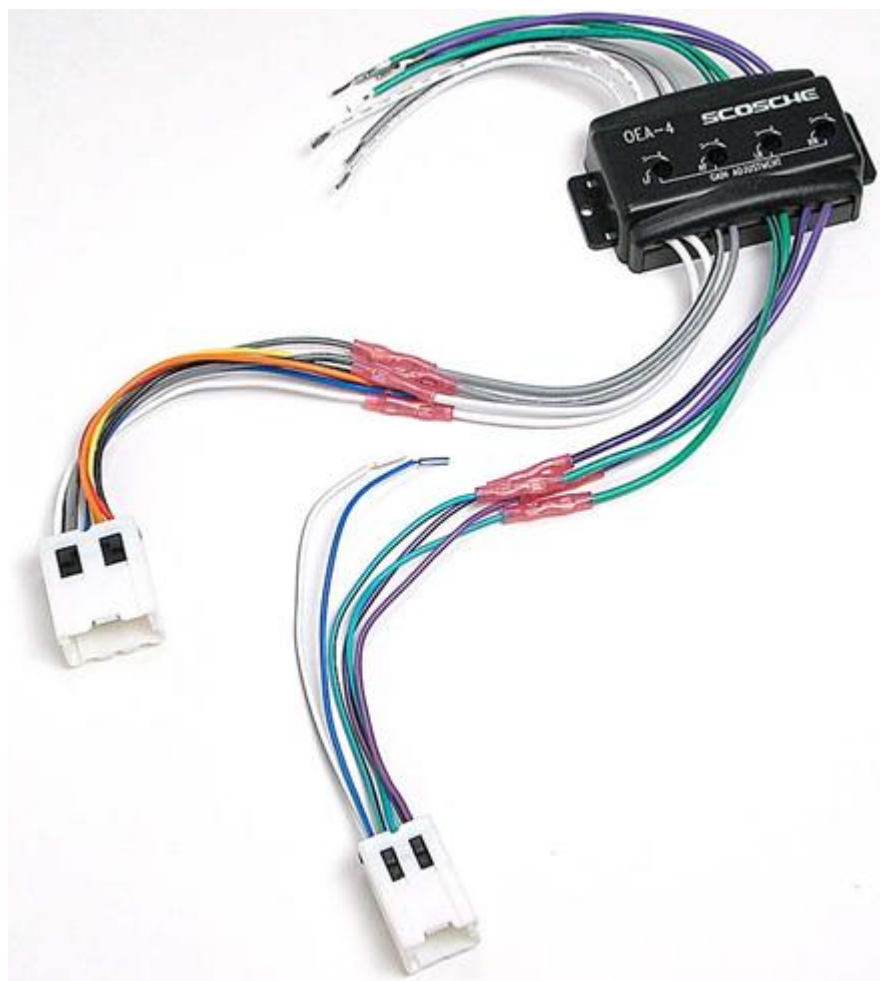
In some vehicles, you need to plug in the harness somewhere other than behind the radio. A great example is a common version of the Ford Taurus, where the factory amp and radio tuner are located in the vehicle's trunk. These harnesses often consist of a basic wiring scheme that has wires long enough to reach the necessary destination. In the case of the Taurus, the adapter includes 20' of speaker wire to reach the trunk.

### Hook up your new radio by bypassing the factory amp

A vehicle's stereo system sometimes has a separate amplifier, and when installing a new receiver, you generally need to connect the new [Bluetooth car stereo](#)'s speaker wires to the factory amp's output section. These amp bypass harnesses allow you to use the power from the new car stereo to drive your speakers and not rely on factory power.

These harnesses tend to be more affordable than amplifier inte

gration adapters (below), but can involve more work if the amplifier is in a remote location, like under a seat or in the trunk.



### Keep the factory amp in play

Many wiring harnesses can let you keep your vehicle's factory amplifier when replacing the stock radio. They include connections that directly tie the outputs of your new car stereo into the factory amplifier's inputs. So, you'll be using the factory power for your speakers, instead of the power from your new radio.

These harnesses can sometimes shorten the installation time, since wires often do not have to be run to the factory amplifier location, but they tend to be more expensive than the bypass harnesses above. You may also see a module connected in these harnesses – they include adjustments that enable you to properly

Properly integrate your stereo's speaker outputs and the factory amplifier's inputs to keep your music clear.

### Retain those important audible safety alerts

In many vehicles, the audible safety alerts are integrated into the factory radio. When you replace that radio, these warning sounds are lost, and that's dangerous. Thus, these vehicles require a special harness to keep these audible tones working when you install a new stereo. Fortunately, these harnesses also take care of all of the basic stereo connections.

### Hang on to factory conveniences you love

Today's cars include an ever-growing number of features built into the factory radios, which complicate wiring connections immensely. They can include things like Ford SYNC®, GM OnStar®, Chrysler Uconnect®, and steering wheel audio controls for the stereo and your phone.

When you replace the factory radio in these vehicles, a more-robust type of integration adapters is needed in order to have these features work with your new stereo.

Some integration adapters, like the iDatalink Maestro, even enable you to download programming for specific receivers and vehicles so you can keep as much of the factory functionality as possible.



### Packages that connect and secure your radio

There are also vehicles that not only have a complicated wiring scheme, but they also have a unique dash layout. Integration adapters for these vehicles include both the wiring connections and a custom dash kit to get your new receiver installed.

These generally include just about everything you need to get the receiver connected, mounted in the dash, and retain many o

f beneficial factory features, such as electronic climate controls.

## **Additional adapters for car stereo installations**

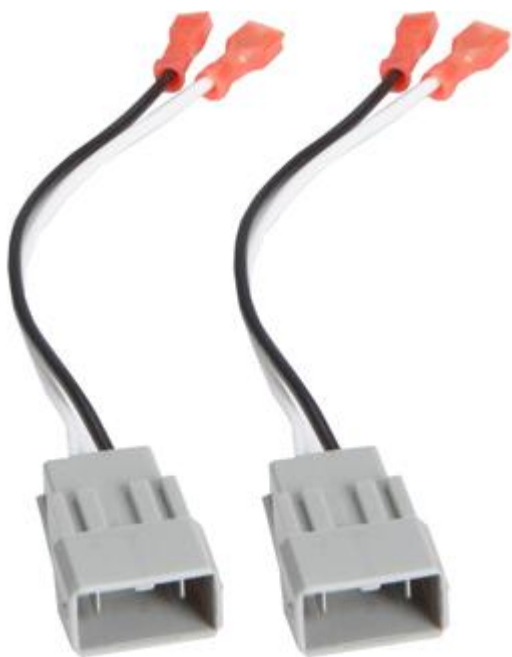
Sometimes, a wiring harness won't take care of everything and you need additional adapters to install a new stereo. They can help with a specific connection or allow you to keep a factory feature.

### **Antenna adapters**

Many factory AM/FM antenna connectors simply plug into the antenna port on the rear of a new receiver. However, some vehicles have an antenna connector with a different shape or are part of an amplified antenna system. In these cases, an antenna adapter becomes necessary for your radio installation so you can keep your AM/FM stations playing.

### **Steering wheel audio control adapters**

Modern vehicles often include steering wheel controls to let you safely operate your factory audio system without taking your hands off the wheel. These functions include volume controls, track forward/back, and hands-free calling controls. In most cases, those controls won't work after replacing the factory radio. Thankfully, steering wheel control adapters help integrate these controls with many new stereos, so you can keep using these handy controls with your new stereo. Besides, there are many aftermarket products like [Pumpkin car stereo](#) support steering wheel control function.



## Speaker wiring harnesses

While they don't directly help with car stereo installations, the speaker wiring harnesses we offer let you use the factory speaker wires for your new speakers, just like car stereo harnesses. Their plugs match the factory speaker wiring plugs in the vehicle, and the other ends slide over the new speakers' terminals. That way, you don't have to run new wire from the radio to all the speaker locations in your vehicle or cut factory wires.

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## [How Bluetooth Car Stereos Work](#)



by Jessica Toothman

Bluetooth car stereos are commonly integrated with Bluetooth-enabled cell phones, and when the two devices are within range of each other, they can communicate in a number of interesting ways. Depending on the particular models in use, it may be possible to make and receive calls without even pulling out your phone or pushing a single button. You can even hear the calls through the vehicle's speakers. Other models may require a few button-pushes, but usually with more ease than plodding through cell phone menus. You may also be able to view other information such as the phonebook, incoming calls and call status on the stereo panel. When the phone rings, the speakers will automatically turn down the volume on any music or movies that are playing while you chat on the phone and resume when the call is over.

Some [Bluetooth car stereos](#) can store your phone's entire address book and other contact information; others have built-



in phones which copy all the information off your phone's SIM card and take over the functions for calling. Your cell phone is disconnected from the piconet, not only saving its battery power but also providing a stronger connection.

These innovations come almost as much out of necessity as convenience – at least for people who can't stand being in the car without making a quick phone call. Many places now enforce laws limiting the use of cell phones while driving, and Bluetooth car stereos are one way to bridge the middle ground.

Besides augmenting your ability to connect with the outside world through phone calls, Bluetooth car stereos can also enhance the environment inside a vehicle. Transmitters can be used to stream music from iPods, MP3 players and satellite radio straight into the stereo without creating a mess of tangled cords. Some car stereos can display video on full-color LCD displays, although this usually isn't an option when the car is moving. If you have some passengers in the back who could use a movie to settle down, lots of Bluetooth-enabled [Android car stereos](#) also come with the hookups needed to turn your vehicle into a mobile entertainment center. Connections for other devices like GPS navigators and USB flash drives are among other common fixtures.

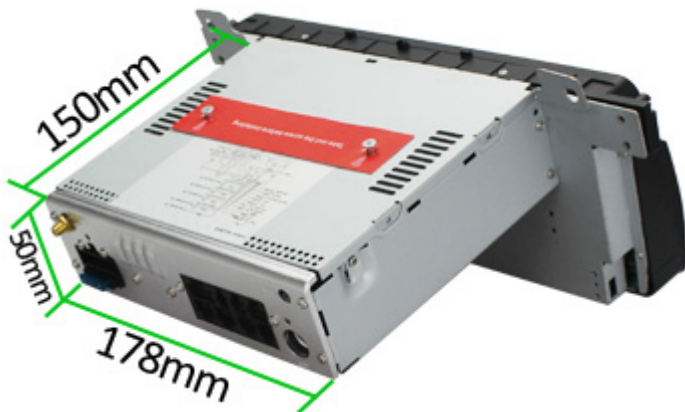
And with each passing year, the technology grows and evolves. Comparing Bluetooth-enabled car stereos to cassette-enabled car stereos already seems like a throwback to the Middle Ages, so who knows what the future has in store.

source: <http://electronics.howstuffworks.com/gadgets/automotive/bluetooth-car-stereo.htm>

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# Differences between Single DIN and Double DIN Android Car Stereo



If you want to buy an aftermarket [Android 4.4 car stereo](#), you should base on your car's year, make and model. Normally, aftermarket head units are rectangular and the standard car stereo size is referred to as single DIN. Most cars have single DIN stereo slots. The measurement of a standard [single DIN](#) slot is 50mm height by 178mm width. Most car radios will slide directly into the single DIN slot without requiring an additional adapter kit. However, some DIN models may require an installation kit.

The second most common car stereo slot size is the double DIN. Double DIN slots are twice as tall as the standard single DIN slots, but they have the same width as single DIN stereos. We carry double DIN car stereos that slide directly into the double DIN slot. If you have the space, double DIN models are great because they usually feature LCD monitors for video playback and GPS navigation.

Actually, the [double DIN Android head units](#) have become more popular: many vehicle manufacturers (especially of Asian cars) created a DIN CD player for use with a DIN cassette/radio unit

. The main advantage to an aftermarket double DIN is that it'll look better in the dash of a vehicle that uses a stock double DIN head unit. A larger head unit can have larger controls and a larger display, which making it easier to use. The best in-

dash mobile video and navigation units are double DIN, because they don't require a flip-out mechanism for the viewscreen.

Regardless of classification (single DIN, double DIN, etc.), the stereo's depth is unique for each model. The installation may require some customization if your vehicle has a relatively shallow cavity. Though you may wish to perform custom installs, it's always wisest to choose a model that will fit your car perfectly. Check out our website to find out what will exactly fit your vehicle. This will save you a lot of time, money and hassle when it comes time to install your car stereo.

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